Contents

NUMBER 1, JANUARY 1988

1 Editorial

3 *S.-E. Widmalm, J. H. Lillie and M. M. Ash, Jr:* Anatomical and electromyographic studies of the digastric muscle

23 *J. H. Zinck, P. McInnes-Ledoux, C. Capdebosq and R. Weinberg:* Chemomechanical caries removal—a clinical evaluation

35 *N. P. Schumann, U. Zwiener and A. Nebrich:* Personality and quantified neuromuscular activity of the masticatory system in patients with temporomandibular joint dysfunction

49 *S. Fitzig and I. Eli:* The plastic cap—an improved technique for impression taking

55 *P. A. Ödman and S. Karlsson:* Follow-up study of patients with bridge constructions performed by private dental surgeons and at a university clinic, 8 years following insertion

65 *M. Hashimoto, Y. Akagawa, H. Nikai and H. Tsuru:* Single-crystal sapphire endosseus dental implant loaded with functional stress—clinical and histological evaluation of peri-implant tissues

77 *R. Furuya, B. J. Zulqarnain and B. Hedegård:* The silent period in the masseter and anterior temporalis muscles in young adult subjects unaware of mandibular dysfunction symptoms

91 *K. S. Türker:* A method for standardization of silent period measurements in human masseter muscle

103 *P. J. Knibbs:* Glass ionomer cement: 10 years of clinical use

NUMBER 2, MARCH 1988

117 *A. G. Pullinger and A. A. Monteiro:* History factors associated with symptoms of temporomandibular disorders

125 *N. S. Salem, E. C. Combe and D. C. Watts:* Mechanical properties of elastomeric impression materials

133 *H. F. Grove and L. V. Christensen:* Relationship of first primary palatine rugae to the maxillary canines in man

141 *C. Lekkas, G. L. J. M. Honee and A. van den Hooff:* Effects of experimental defects of the articular disc of the temporomandibular joint in rats

149 *F. Koray, M. Soyman and G. Erdoğan:* Investigation of the aetiopathogenesis of amelogenesis imperfecta through microscopic, submicroscopic and cytogenetic methods—a case report

163 *J. M. van der Zel and M. M. A. Vrijhoef:* Carbon absorption of palladium-enriched ceramic alloys

167 *H. Baharav, D. Abraham, H. S. Cardash and M. Helft:* Effect of exposure time on the depth of polymerization of a visible light-cured composite resin
173 *P. L. Millstein, J. Harlan and D. Nathanson:* Colour effect of denture base on denture tooth materials
181 *Society of Oral Physiology:* Abstracts of Selected Presentations from the Fifteenth Biennial Meeting 11–14 June, Imatra, Finland

NUMBER 3, MAY 1988

215 *J. N. Bezuur, L. L. M. Habets, V. Jimenez Lopez, M. Naeije and T. L. Hansson:* The recognition of craniomandibular disorders—a comparison between clinical and radiographic findings in eighty-nine subjects
223 *C. P. Marinello, Th. Kerschbaum, B. Heinenberg, R. Hinz, S. Peters, P. Pfeiffer, P. D. Reppel and H. Schwickerath:* First experiences with resin-bonded bridges and splints—a cross-sectional study, part II
237 *G. Agerberg:* Mandibular function and dysfunction in complete denture wearers—a literature review
251 *O. A. Sarhan and I. A. Nashashibi:* A comparative study between two randomly selected samples from which to derive standards for craniofacial measurements
257 *R. Grajower and D. Novickas:* The amalgam margin angle, marginal breakdown and adjacent caries in occlusal enamel, a pilot study on extracted teeth
269 *W. N. Williams, A. O. Vaughn and C. E. Cornell:* Bilabial compression force discrimination by human subjects
277 *J. W. Farah, J. C. Robinson, J. A. A. Hood, A. Koran and R. G. Craig:* Force–displacement properties of modified cross-linked silicone compared with facial tissues
285 *Z. Harun, G. D. Stafford and R. Huggett:* The use of an electronic thermometer in intraoral temperature measurement
295 *T. Nagasawa, K. Yoshida, S. Minagi, H. Tamura and H. Tsuru:* A new objective parameter for the electromyographic evaluation of masticatory function of edentulous patients
301 *M. I. MacEntree and U. C. Belser:* Fixed restorations produced by commercial laboratories in Vancouver and Geneva
307 *M. M. A. Vrijhoef and J. M. Van der Zel:* Oxidation of a gold–palladium PFM alloy

NUMBER 4, JULY 1988

313 *J. W. Rippin:* Medical science and the patient
321 *J. N. S. C. Aukes, A. R. Käyser and A. J. A. Felling:* The subjective experience of mastication in subjects with shortened dental arches
325 *A. Ben-Amar, R. Liberman, D. Nordenberg and Z. Metzger:* The effect of retention grooves on gingival marginal leakage in class II posterior composite resin restorations
333 *A. Karipidis and G. J. Pearson:* The effect of seating pressure and powder/liquid ratio of zinc phosphate cement on the retention of crowns

339 *K. Satomi, Y. Akagawa, H. Nikai and H. Tsuru:* Tissue response to implanted ceramic-coated titanium alloys in rats
347 *G. J. Pearson and A. S. Atkinson:* The effects of mixing capsule geometry on the early compressive strength of dental amalgam
353 *A. C. Watkinson:* Electromyographic biofeedback and sustained masseter muscle contraction in man
361 *S. R. J. Smail, C. J. W. Paterson, A. C. McLundie and R. Strang: In vitro* temperature rises during visible-light curing of a lining material and a posterior composite
367 *A. S. El-Gheriani and R. B. Winstanley:* The value of the Gothic arch tracing in the positioning of denture teeth
373 *K. Yoshida, H. Okane, T. Nagasawa and H. Tsuru:* A criterion for the selection of artificial posterior teeth
379 *G. M. Feingold, A. A. Grant and W. Johnson:* The effect of variation of residual ridge angle on partial denture abutment tooth movement
385 *S. Kohno, K. Yoshida and H. Kobayshi:* Pain in the sternocleidomastoid muscle and occlusal interferences
393 *M. LoSchiavo, S. Madhav and R. Whyman:* Determination of vertical dimension by hydraulic intraoral jack
401 Book reviews

NUMBER 5, SEPTEMBER 1988

405 *M. S. Bapna, R. Murphy and S. Mukherjee:* Inhibition of bacterial colonization by antimicrobial agents incorporated into dental resins
413 *D. J. Witter, P. van Elteren and A. F. Käyser:* Signs and symptoms of mandibular dysfunction in shortened dental arches
421 *P. R. Mezger, M. M. A. Vrijhoef, S. M. Newman and E. H. Greener:* The corrosion resistance of a new cobalt–chromium–molybdenum–ceramic alloy
429 *K. Ogata, G. Nishigawa, T. Aoki, Y. Maeda and Y. Okuno:* Lateral forces exerted on the abutment tooth of complete mandibular overdentures
439 *A. W. G. Walls, J. J. Murray and J. F. McCabe:* Composite laminate veneers: a clinical study
455 *T. Tervonen and M. Knuuttila:* Prevalence of signs and symptoms of mandibular dysfunction among adults aged 25, 35, 50 and 65 years in Ostrobothnia, Finland
465 *L. L. M. H. Habets, J. N. Bezuur, M. Naeiji and T. L. Hansson:* The Orthopantomogram®, an aid in diagnosis of temporomandibular joint problems. II. The vertical symmetry
473 *E. Schepers, M. De Clercq and P. Ducheyne:* Histological and histomorphometrical analysis of bioactive glass and fibre reinforced bioactive glass dental root implants
489 *D. Sinobad:* The position of the occlusal plane in dentulous subjects with various skeletal jaw-relationships
499 *W. J. Ralph and C. D. L. Thomas:* Tooth support in the human mandible
505 *T. Tervonen:* Condition of prosthetic constructions and subjective needs for replacing missing teeth in a Finnish adult population

NUMBER 6, NOVEMBER 1988

515 *R. Tuominen, K. Ranta and I. Paunio:* Wearing of removable partial dentures in relation to dental caries

521 *P. L. M. Lemmens, H. Letzel, M. C. R. B. Peters and M. A. Van't Hof:* Bulk fracture of amalgam restorations—a 5-year controlled clinical trial

531 *T. Nagasawa, H. Tamura and H. Tsuru:* The effects of muscle fatigue on the silent period of the masticatory muscles

537 *A. W. G. Walls, J. F. McCabe and J. J. Murray:* Factors influencing the bond strength between glass polyalkenoate (ionomer) cements and dentine

549 *J. N. Bezuur, L. L. M. H. Habets and T. L. Hansson:* The recognition of craniomandibular disorders—a comparison between clinical, tomographical, and dental panoramic radiographical findings in thirty-one subjects

555 *K. Chung and E. H. Greener:* Degree of conversion of seven visible light-cured posterior composites

561 *L. C. Christensen:* Quantitative observations on maximum static work efforts and associated pain of the human masseter muscle

575 *M. Addy and P. Mostafa:* Dentine hypersensitivity. I. Effects produced by the uptake *in vitro* of metal ions, fluoride and formaldehyde on to dentine

587 *J. R. Heath, L. Zoitopoulos and C. Griffiths:* Simple methods for denture identification: a clinical trial

593 *T. D. Long and B. G. N. Smith:* The effect of contact area morphology on operative dental procedures

599 *R. Hugget, S. C. Brooks, N. Jones and G. P. Swan:* The measurement of the setting characteristics of rigid autopolymerizing resins for direct use in the oral cavity

605 *L. P. Adams and R. J. C. Wilding:* Tooth wear measurements using a reflex microscope

615 *J. W. Farah, R. G. Craig and K. A. Meroueh:* Finite element analysis of a mandibular model

625 *M. Kellar and E. S. Duke:* Neutralizing phosphoric acid in the acid etch resin technique

631 *T. F. Lundeen, J. M. George and J. R. Sturdevant:* Stress in patients with pain in the muscles of mastication and the temporomandibular joints

639 *J. R. Williams and R. G. Craig:* Physical properties of addition silicones as a function of composition

651 Index to Volume 15